

Collin Jackson

[linkedin.com/in/collinjackson](https://www.linkedin.com/in/collinjackson)

WORK EXPERIENCE

- [Nexus](#) / *Member of Technical Staff* 2024 – present • *San Francisco, CA*
- Created web and CLI frontends for a verifiable compute network with millions of users.
- [Sentz Global](#) / *Staff Software Engineer* 2022 – 2023 • *San Francisco, CA*
- Launched frontend for a self-custodial payments mobile wallet application that grew to 300k+ users.
- [Noom](#) / *Staff Software Engineer* 2020 – 2022 • *New York, NY*
- Improved team productivity by adding time-related testing abstractions to a mobile app with >1M installs.
- [Google](#) / *Staff Software Engineer* 2005, 2007, 2008, 2015 – 2020 • *Mtn View, CA*
- Named Flutter as the first hire for an open source framework now used by millions of developers.
 - Supported launch of Flutter's first major Firebase customer, Hamilton, with >1M installs.
 - Tech lead for FlutterFire plugin suite, which includes several top-10 plugins and directly drives revenue.
- [Apportable](#) / *Founder and CEO* 2010 – 2015 • *San Francisco, CA*
- Founded and led a 70-person developer tools company, backed by Y Combinator. Acquired by Google.
- [Carnegie Mellon University](#) / *Assistant Research Professor* 2009 – 2012 • *Moffett Field, CA & Pittsburgh, PA*
- Co-inventor of [HTTP Strict Transport Security \(HSTS\)](#), a widely deployed web security standard.
- [Betable](#) / *Frontend Engineer* 2008 – 2010 • *San Francisco, CA*
- Used semantic HTML, CSS, and JavaScript to develop a maintainable, cross-browser web application.
- [Microsoft Research](#) / *Research Consultant* 2006 – 2007 • *Redmond, WA*
- Developed novel techniques for secure cross-domain web communication.
 - Conducted user studies to determine effectiveness of browser security features.
- [Cooliris](#) / *Software Engineering Consultant* 2006 – 2010 • *Palo Alto, CA*
- Increased addressable market >100% by adding additional browser support. Acquired by Yahoo!
- [Department of Homeland Security](#) / *Privacy Technology Analyst Intern* 2005 • *Alexandria, VA*
- Authored internal privacy guidelines for government technology.
- [Center for Democracy and Technology](#) / *Security Research Consultant* 2004 – 2005 • *Washington, DC*
- Influenced technology policy through investigation of fraudulent websites and malicious software.
- [Wizards of the Coast](#) / *Web Application Developer Consultant* 2004 – 2008 • *Renton, WA*
- Designed and built app to administer millions of exam questions to prepare and assess tournament judges.
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EDUCATION

Ph.D., Computer Science, Stanford University (2009) GPA: 4.0

Dissertation: *Improving Browser Security Policies*

M.S., Computer Science, Stanford University (2008) GPA: 4.0

B.S., *summa cum laude*, Yale University (2004) GPA: 3.98

with distinction in the Computer Science major and the Mathematics and Philosophy major

TEACHING

- Browser Security (2010, 2011)
- Web Application Security and Privacy (2010, 2011)
- Web Programming and Security (2009)
- Computer and Network Security (2007, 2008)

Instructor, CMU 96834
Instructor, CMU 96831
Co-Instructor, Stanford CS142
Teaching Assistant, Stanford CS155

AWARDS

- Mozilla Security Award (2008, 2009, 2010)
 - Computerworld Horizon Award for Cutting Edge Technologies (2006)
 - National Science Foundation Graduate Research Fellowship (2004 – 2007)
 - Yale University Undergraduate Prize in Computer Science (2004)
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PATENTS

- Browser system and method for warning users of potentially fraudulent websites (Google)
 - Secure cross-domain communication for web mashups (Microsoft)
 - Protection and communication abstractions for web browsers (Microsoft)
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SELECTED RESEARCH

- Emily Stark, Lin-Shung Huang, Dinesh Israni, Collin Jackson, and Dan Boneh. The case for prefetching and prevalidating TLS server certificates. In Proc of the 19th Network & Distributed System Security Symposium (NDSS 2012).
- Eric Y. Chen, Jason Bau, Charles Reis, Adam Barth, and Collin Jackson. App Isolation: Get the Security of Multiple Browsers with Just One. In Proc of the 18th ACM Conference on Computer and Communications Security (CCS 2011).
- Zack Weinberg, Eric Chen, Pavithra Ramesh Jayaraman, and Collin Jackson. I Still Know What You Visited Last Summer: Leaking browsing history via user interaction and side channel attacks. In Proc. of the IEEE Security and Privacy Symposium (Oakland 2011).
- Lin-Shung Huang, Zack Weinberg, Chris Evans, Collin Jackson. Protecting Browsers from Cross-Origin CSS Attacks. In *Proceedings of the 17th ACM Conference on Computer and Communications Security (CCS 2010)*.
- Gaurav Aggarwal, Elie Bursztein, Dan Boneh, and Collin Jackson. An Analysis of Private Browsing Modes in Modern Browsers. In *Proceedings of the 19th USENIX Security Symposium. (USENIX Security 2010)*.
- Daniel Bates, Adam Barth, and Collin Jackson. Regular Expressions Considered Harmful in Client-Side XSS Filters. In *Proceedings of the 19th International World Wide Web Conference. (WWW 2010)*.
- Adam Barth, Collin Jackson, and John C. Mitchell. Securing Browser Frame Communication. In *Communications of the ACM (CACM 2009)*.
- Collin Jackson, Adam Barth, Andrew Bortz, Weidong Shao and Dan Boneh. Protecting Browsers from DNS Rebinding Attacks. In *ACM Transactions on the Web (TWEB 2009)*.
- Adam Barth, Collin Jackson, and John C. Mitchell. Robust Defenses for Cross-Site Request Forgery. In *Proceedings of the 15th ACM Conference on Computer and Communications Security (CCS 2008)*.
- Adam Barth, Collin Jackson, and John C. Mitchell. Securing Browser Frame Communication. In *Proceedings of the 17th USENIX Security Symposium (USENIX Security 2008)*.
- Collin Jackson and Adam Barth. ForceHTTPS Cookies: A Defense Against Eavesdropping and Pharming. In *Proceedings of the 17th International World Wide Web Conference (WWW 2008)*.
- Helen J. Wang, Xiaofeng Fan, Jon Howell, and Collin Jackson. Protection and Communication Abstractions for Web Browsers in MashupOS. In *Proceedings of the 21st ACM Symposium on Operating Systems Principles (SOSP 2007)*.
- Collin Jackson, Adam Barth, Andrew Bortz, Weidong Shao, and Dan Boneh. Protecting Browsers from DNS Rebinding Attacks. In *Proceedings of the 14th ACM Conference on Computer and Communications Security (CCS 2007)*
- Collin Jackson and Helen J. Wang. Subspace: Secure Cross-Domain Communication for Web Mashups. In *Proceedings of the 16th International World Wide Web Conference (WWW 2007)*.
- Collin Jackson, Andrew Bortz, Dan Boneh, and John C. Mitchell. Protecting Browser State from Web Privacy Attacks. In *Proceedings of the 15th International World Wide Web Conference (WWW 2006)*.
- Blake Ross, Collin Jackson, Nick Miyake, Dan Boneh, and John C. Mitchell. Stronger Password Authentication Using Browser Extensions. In *Proceedings of the 14th USENIX Security Symposium (USENIX Security 2005)*.